RD-29,557-4

## LISTING of CLAIMS

1-12. (Canceled)

13. (Currently amended) A spectroscopic solvent vapor sensor for identifying siloxane solvent vapor, the sensor comprising:

The selvent vapor sensor of claim 11 wherein said selvent vapor sensor comprises

an infrared source to generate infrared radiation; and

an infrared sensor, the infrared sensor selectively responsive to siloxane absorbance of infrared radiation having wavelengths in a near or mid-infrared range.

- 14. (Canceled)
- 15. (Currently amended) A piezo-based solvent vapor sensor for identifying siloxane solvent vapor, the sensor comprising:

The solvent vapor sensor of claim 11 wherein said solvent vapor sensor <del>comprises</del>

- a quartz crystal microbalance sensorelement including a transducer film that selectively absorbs the siloxane solvent vapor.
- The solvent vapor sensor of claim 15 wherein said 16. (Original) transducer film comprises a non-polar polymer.
- 17. (Original) The solvent vapor sensor of claim 16 wherein said transducer film comprises a hydrocarbon chain.
- A strain based solvent vapor sensor for 18. (Currently amended) identifying siloxane solvent vapor, the sensor comprising:

Serial No. 10/657,874

RD-29,557-4

The selvent vapor sensor of claim 11 wherein said selvent vapor sensor comprises

a piezo-resistive circuit; and

- a sensing element coupled to the piezo-resistive circuit, the sensing element including a transducer film.
- 19. (Currently amended) The strain based solvent vapor sensor of claim 18 wherein said transducer film comprises a non-polar polymer.
- 20. (Currently amended) The strain based solvent vapor sensor of claim 18 wherein said transducer film comprises a hydrocarbon chain.
  - 21. (Canceled)
- 22. (New) The spectroscopic solvent vapor of claim 13, wherein the infrared sensor is responsive to siloxane absorbance of infrared radiation having wavelengths between about 2300nm and about 2500nm.
- 23. (New) The spectroscopic solvent vapor of claim 13, wherein the infrared sensor is responsive to siloxane absorbance of infrared radiation having wavelengths of about 9200nm.